

Fig. 1A

Example Direct Shipping Cost Database (cost per 5 lbs.)

		112a	112b	112c		112d
		Distribution Center ("DC") 1	DC 2	DC 3		DC N
111a	0-5 miles, courier	\$10.00	-	-	...	-
111b	0-150 miles, domestic ground	\$2.25	\$2.00	\$2.00		\$2.00
111c	150-1000 miles, domestic ground	\$3.00	\$2.50	\$2.50		\$3.00
111d	1000-2500 miles, domestic ground	\$4.00	\$3.50	\$3.50		\$4.50
111e	2500+ miles, domestic ground	\$5.00	\$4.50	\$4.50		\$6.00
111f	0-3000 miles, domestic next day air	\$8.50	\$8.50	\$8.50		\$8.00
111g	3000+ miles, domestic next day air	\$12.00	\$12.00	\$12.00		\$11.00
111h	0-3000 miles, foreign air	-	\$19.00	\$19.00		\$20.00
		⋮				

**Fig. 1B**

Example Direct Labor Cost Database

		116a	116b	116c		116d
		DC 1, Processing Lane 1	DC 1, Processing Lane 2	DC 2, Processing Lane 1		DC N, Processing Lane M
115a	Order Type 1	\$0.50	\$0.50	\$0.75	...	-
115b	Order Type 2	-	\$0.75	\$0.75		-
115c	Order Type 3	\$1.00	-	\$0.75		-
		⋮				
115d	Giftwrapping	-	\$2.00	-		\$2.00
		⋮				

**Fig. 1C**

Example Direct Packing Material Cost Database

		120a	120b		120c
		DC 1	DC 2		DC N
119a	Order Type 1	\$0.50	\$0.50	...	\$0.50
119b	Order Type 2	\$0.20	\$0.25		-
		⋮			

**Fig. 1D**

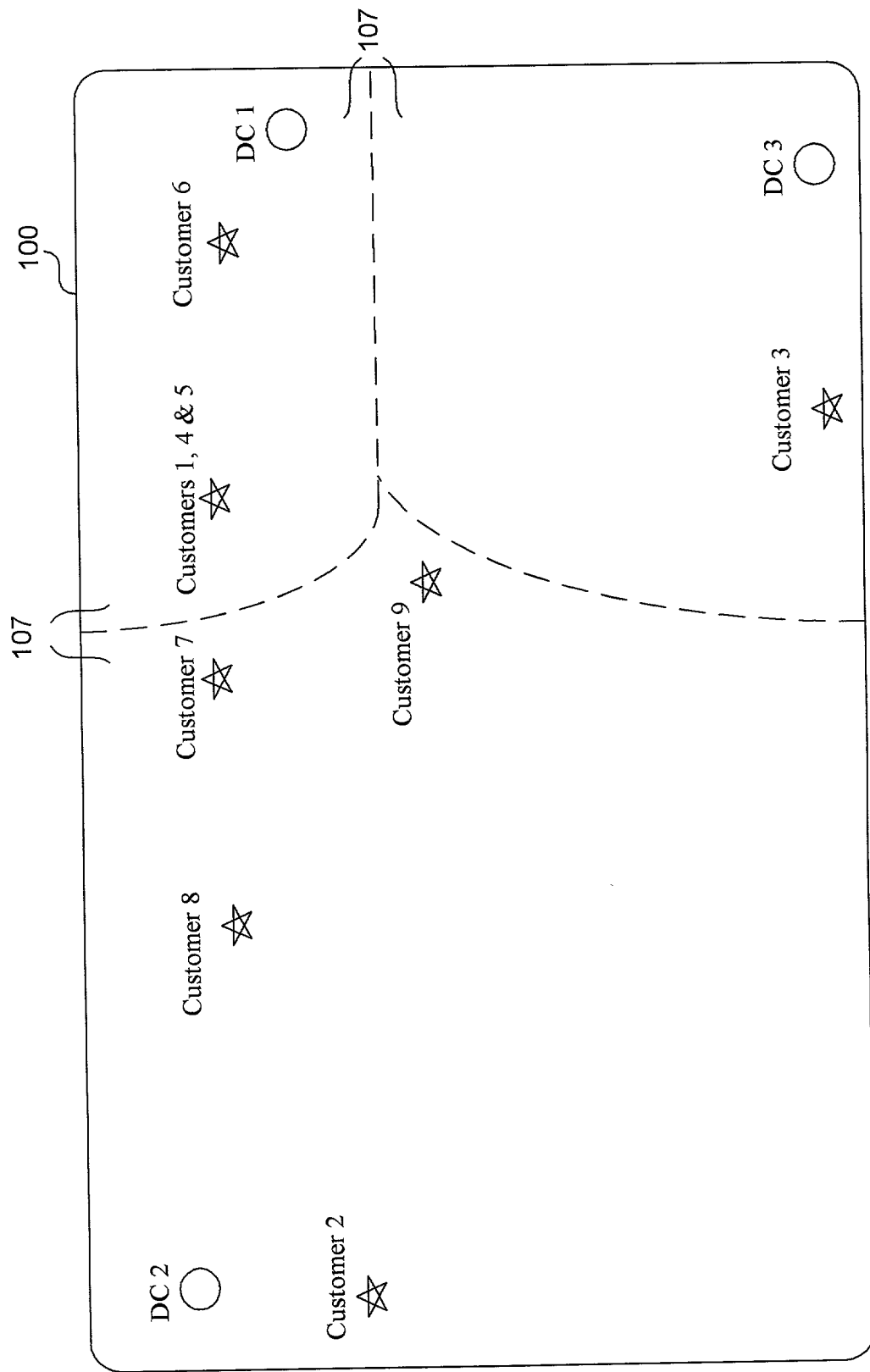


Fig. 1E

Example Estimated Customer Goodwill Cost From Expected Delivery Date Deviation Database

		124a	124b	124c	
		Customer 1	Customer 2	Customer 3	
		⋮			
123a	1 day early	\$-5.00	-	\$-1.00	...
123b	on-time	-	-	\$-0.50	
123c	1 day late	\$2.00	\$2.00	\$1.00	
123d	2 days late	\$5.00	\$2.50	\$1.00	
123e	3 days late	\$10.00	\$3.00	\$2.00	
123f	4 days late	\$25.00	\$5.00	\$1.75	
		⋮			

**Fig. 1F**

Example Estimated Customer Goodwill Cost From Expected Order Split Deviation Database

		128a	128b	128c	
		Customer 1	Customer 2	Customer 3	
		⋮			
127a	1 less order split	\$-2.50	-	\$-0.25	...
127b	expected # of order splits	-	-	\$-0.10	
127c	1 more order split	\$0.50	\$0.50	\$0.25	
127d	2 more order splits	\$1.25	\$0.65	\$0.25	
127e	3 more order splits	\$2.50	\$0.75	\$0.50	
127f	4 more order splits	\$6.25	\$1.25	\$0.40	
		⋮			

**Fig. 1G**

### Example New Order Optimal Allocation Database

	132a	132b	132c		132d	
	DC 1, Processing Lane 1	DC 1, Processing Lane 2	DC 2, Processing Lane 1		DC N, Processing Lane M	
	⋮					
131a	7am-8am EST Order Type 1	25	15	60	...	-
131b	7am-8am EST Order Type 2	-	30	10		-
	⋮					
131c	8am-9am EST Order Type 1	25	25	50		-
131d	8am-9am EST Order Type 2	-	30	20		-
	⋮					

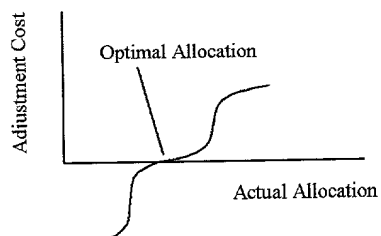
**Fig. 1H**

### Example New Order Actual Allocation Differential

		136a	136b	136c		136d
		DC 1, Processing Lane 1	DC 1, Processing Lane 2	DC 2, Processing Lane 1		DC N, Processing Lane M
		⋮				
135a	7am-8am EST Order Type 1	-	+30	-5	...	-
135b	7am-8am EST Order Type 2	-	+5	-5		-
		⋮				

**Fig. 1I**

### Example New Order Allocation Adjustment Formula



**Fig. 1J**



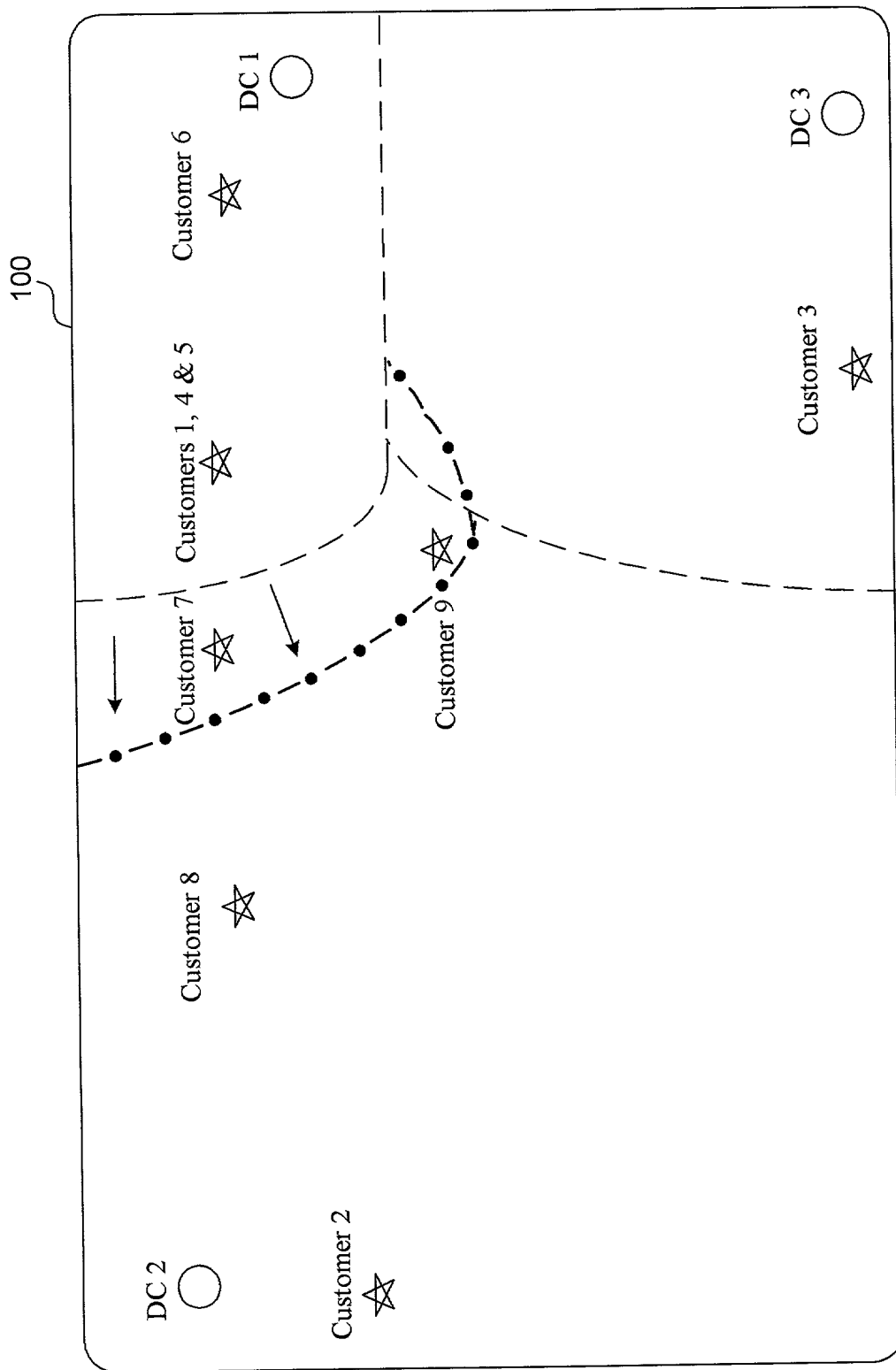


Fig. 1L

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Fig. 2A



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Fig. 2B

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**Delivery Time:** 09/08/xx

Shipping Address:	<a href="#">Change</a>	Items Ordered	Price
Customer 1 Work 123 Main St. Seattle, WA 98101		1 of: <b>Kenny Loggins Alive</b> Kenny Loggins - Availability: 1 in stock - Gift-wrap and note: None <a href="#">Change</a>	\$21.49

**Shipping Method:** [Change](#)  
Standard Shipping

**Shipping Option:** One  
shipment when complete  
order is ready.

Item(s) Subtotal: \$21.49  
Shipping & Handling: \$3.50  
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Total Before Tax: \$24.99  
Estimated Tax: \$2.20  
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**Grand Total for This Order: \$ 27.19**

**Fig. 2D**

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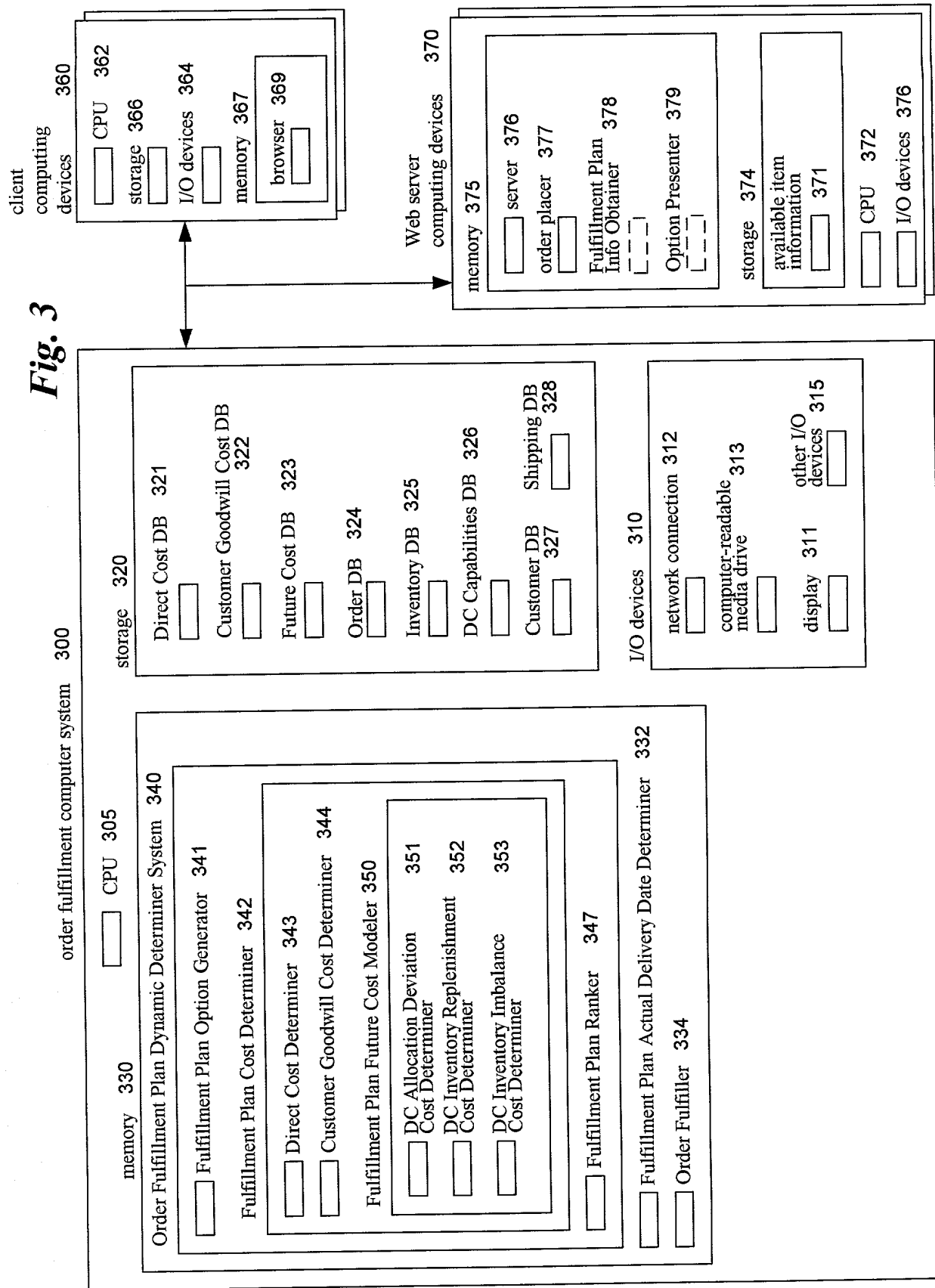
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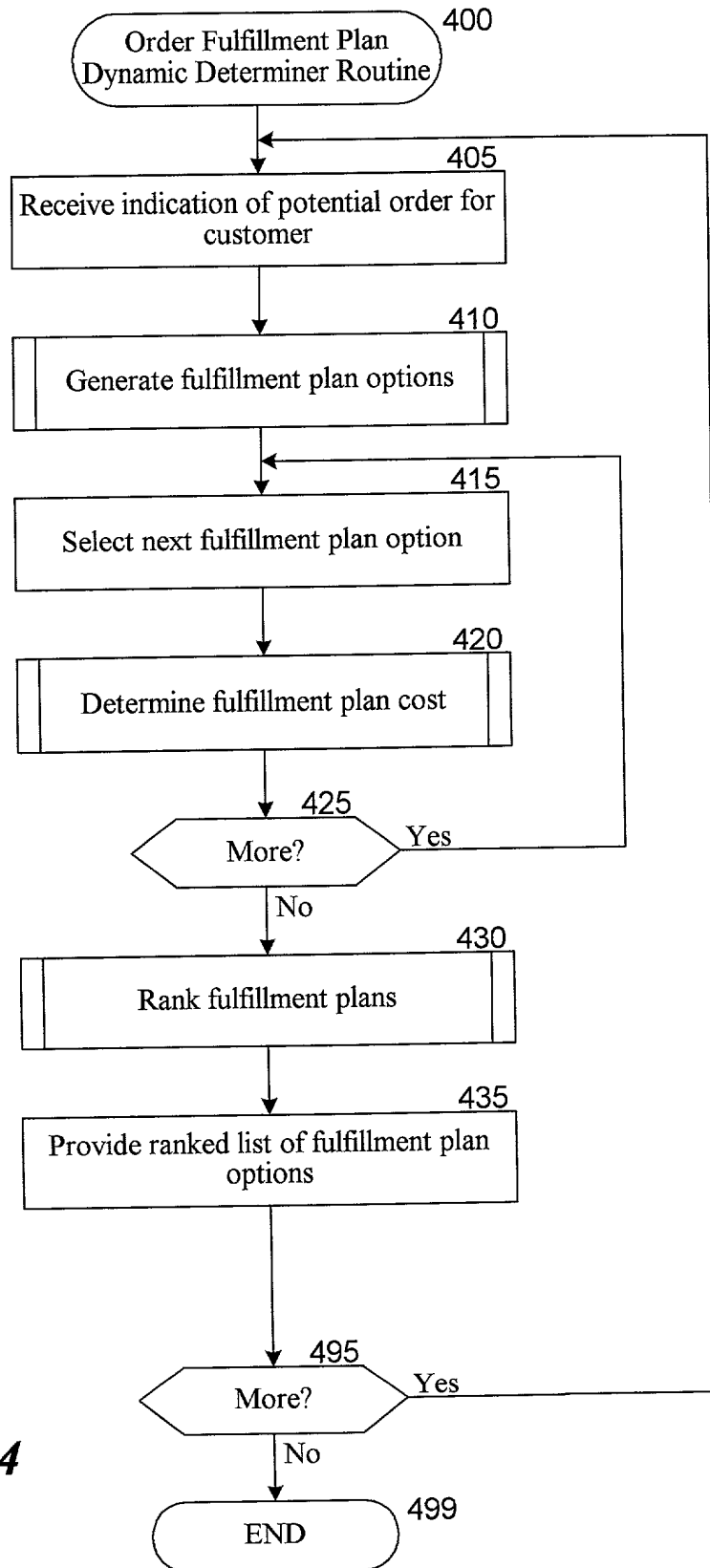
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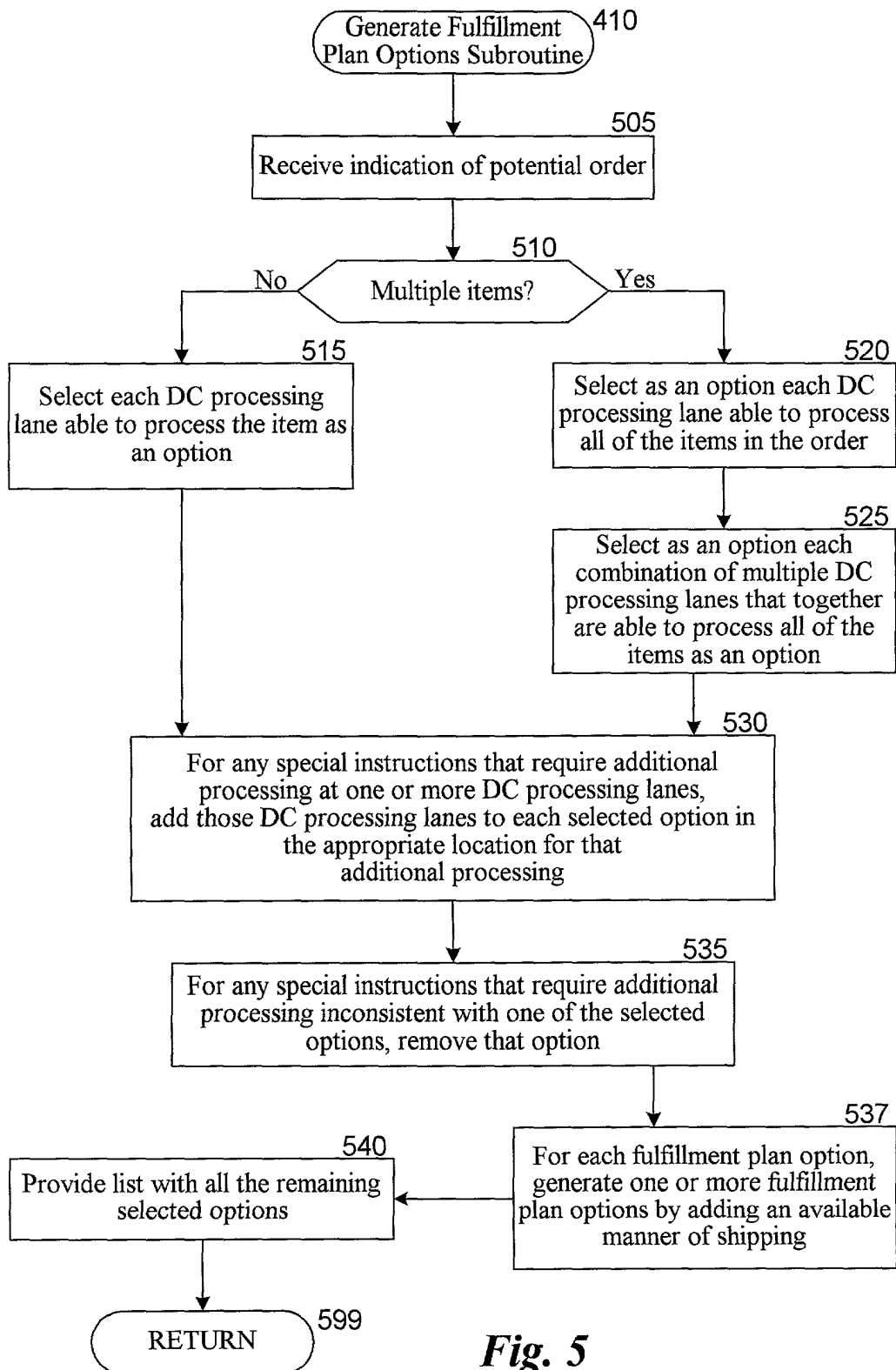
Fig. 2E

Fig. 3

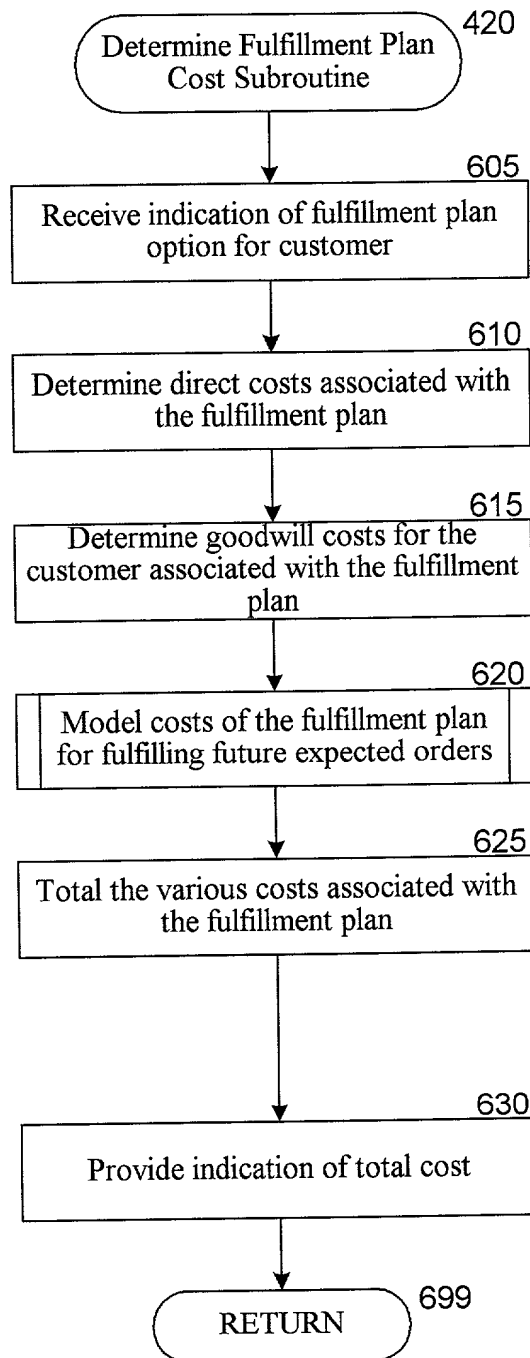




**Fig. 4**



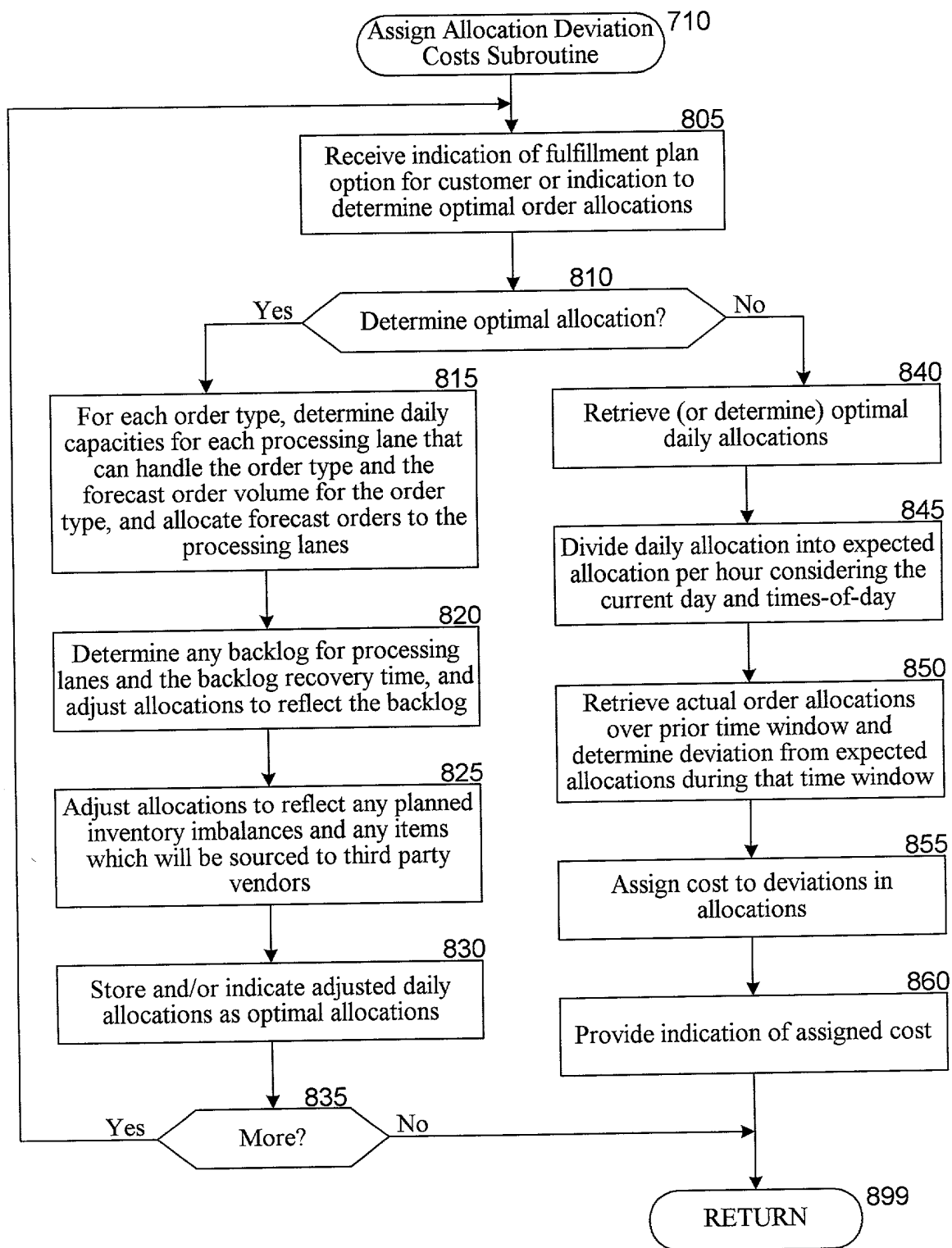
**Fig. 5**



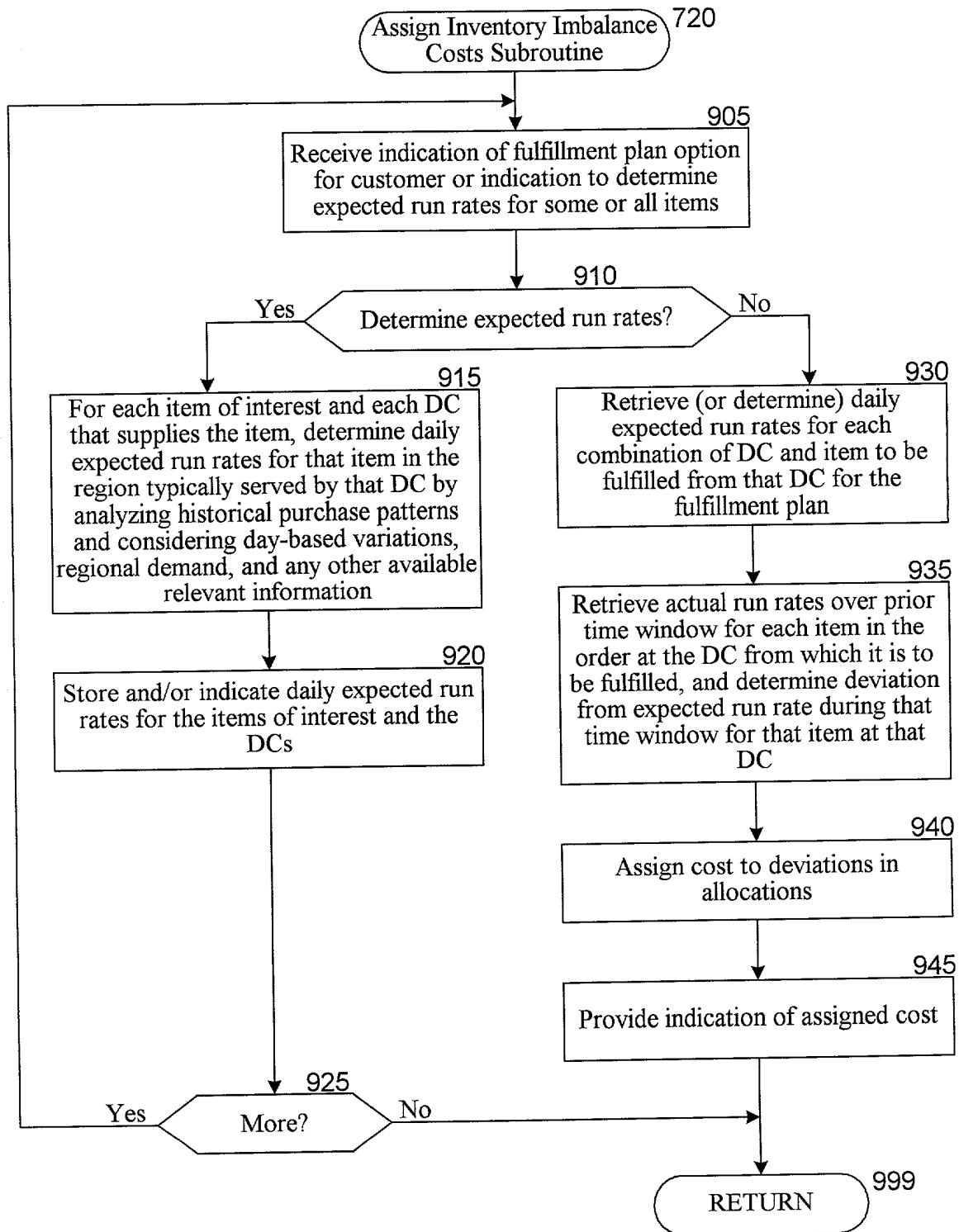
**Fig. 6**



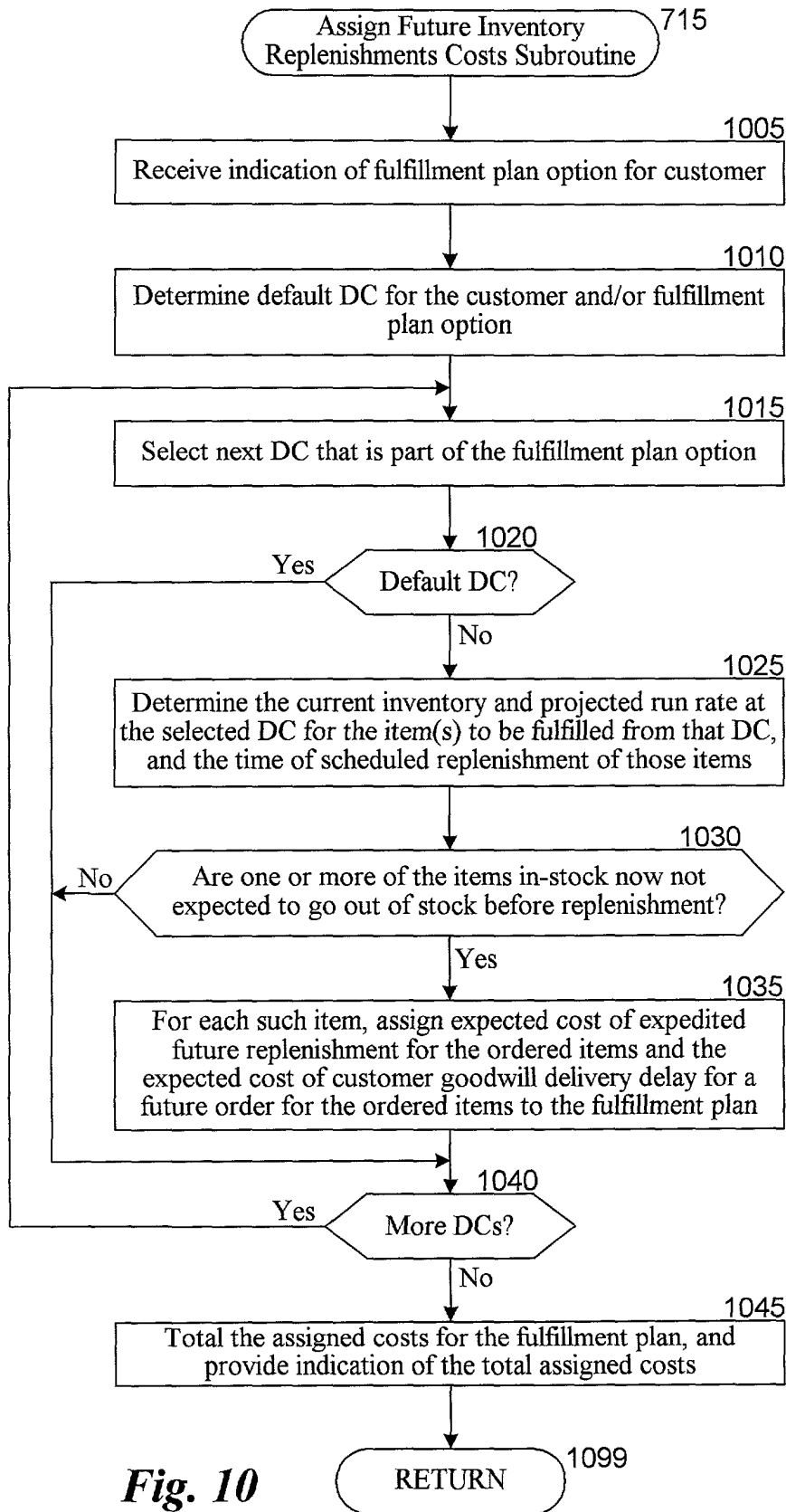




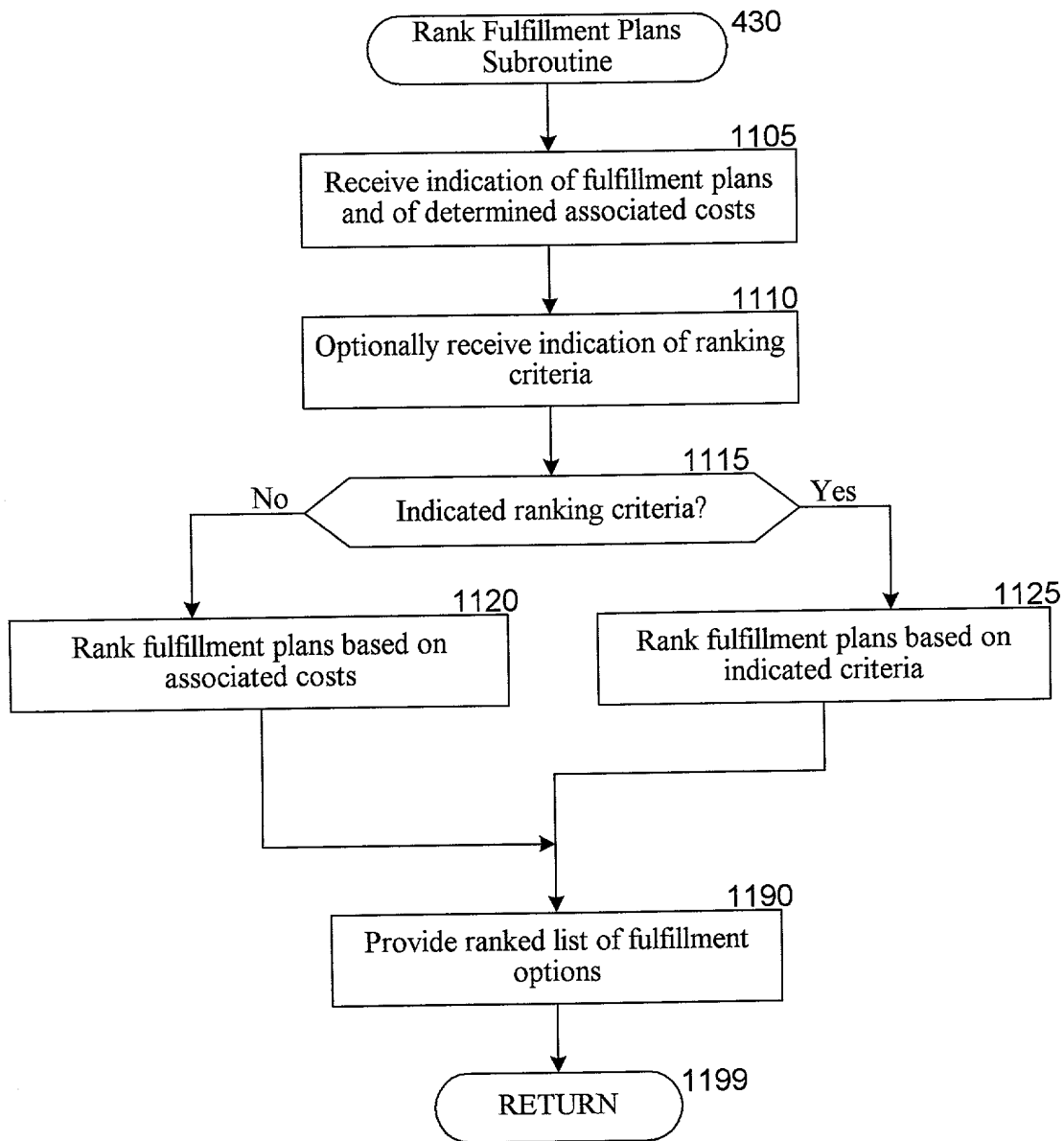
**Fig. 8**



**Fig. 9**

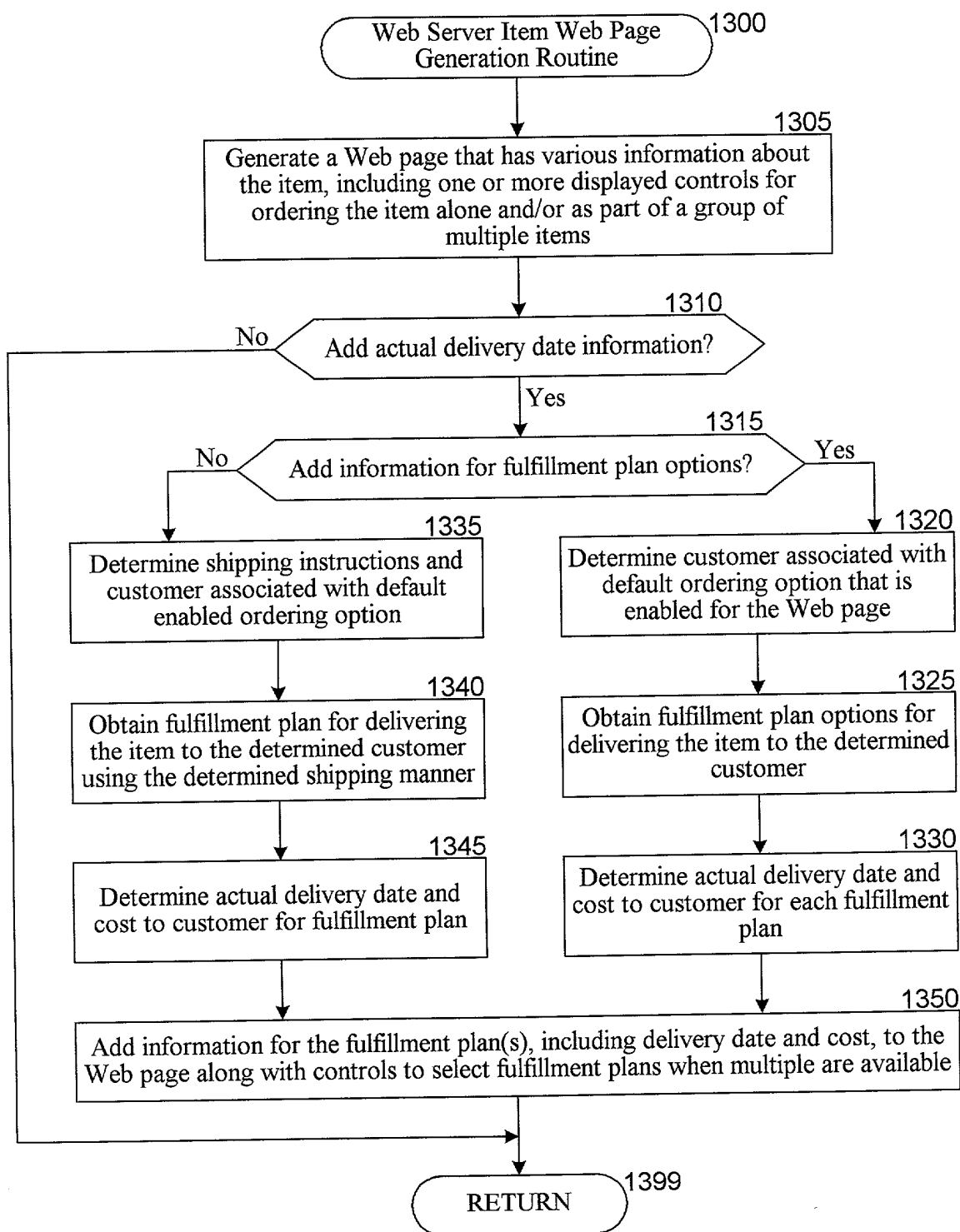


**Fig. 10**



**Fig. 11**





**Fig. 13**





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1510



1515

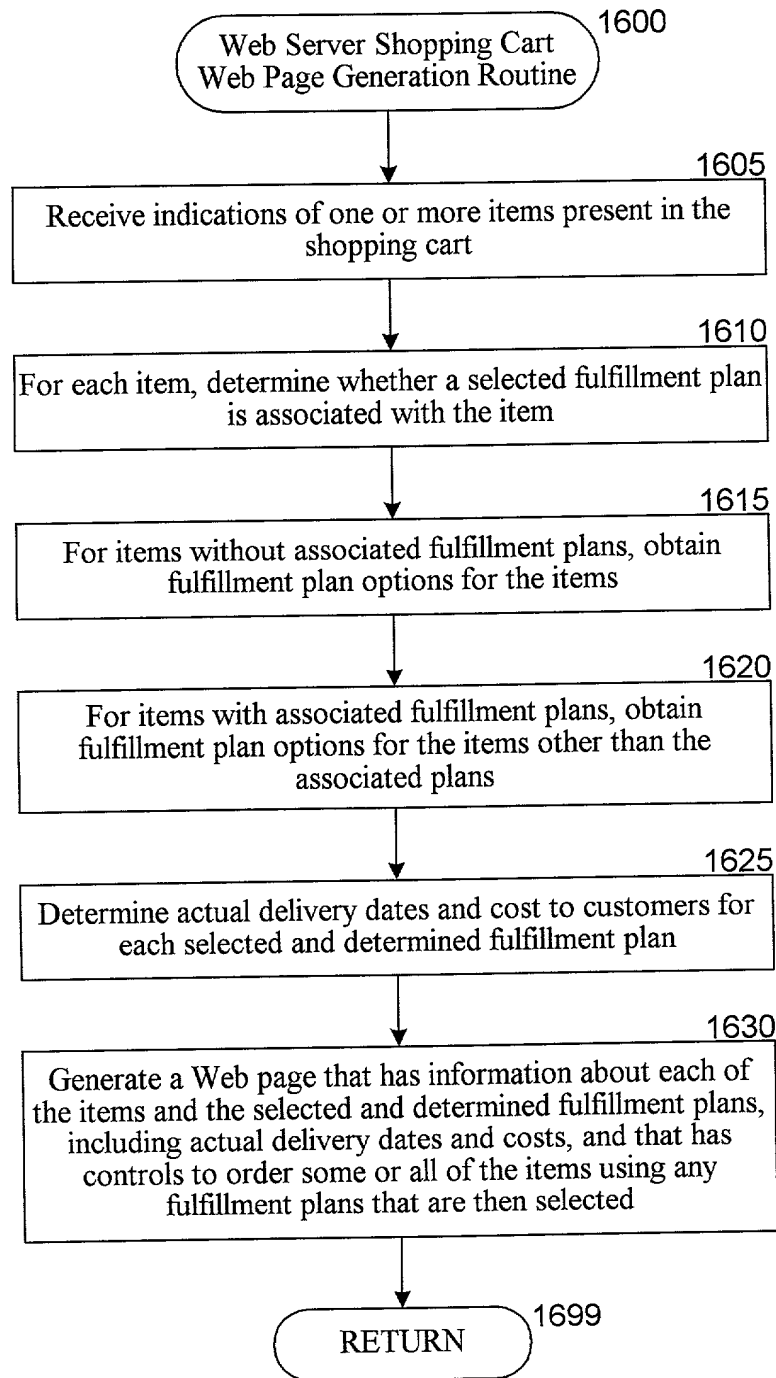


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1599

**Fig. 15**



**Fig. 16**